The Lepidopterological Society of Japan

Synonymic Notes on Three Geometrid Species (Lepidoptera, Geometridae)

Rikio SATO

472–2, Makio, Niigata, 950–21 Japan

Through the courtesy of Dr. B. GUSTAFSSON, Naturhistoriska Riksmuseet, Stockholm and Dr. H.-E. BACK, Museum Alexander Koenig, Bonn, I was able to examine the type-specimens of four geometrid moths. As a result, I have reached the following taxonomic conclusion.

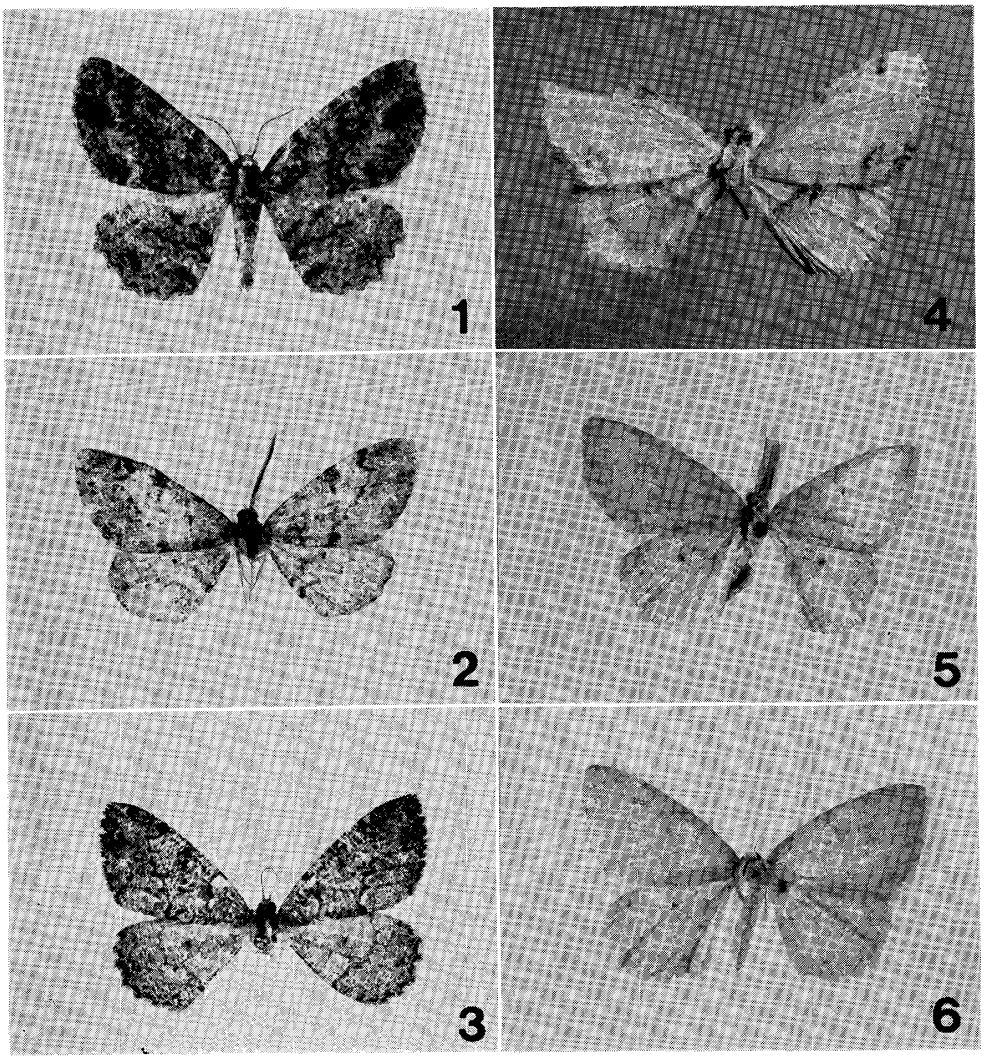


Fig. 1. *Calicha nooraria* (BREMER), male holotype of *yangtseina*. Figs. 2–3. *Deileptenia ribeata* (CLERCK). 2: Male holotype of *subdisplicens*. 3: Female paratype of *subdisplicens*. Figs. 4–6. *Microcalicha seitzi* (PROUT). 4: Male holotype of *chosenibia*. 5: Male holotype of *monochroma*. 6: Female paratype of *monochroma*.

蝶と蛾 *Tyô to Ga*, **33** (3, 4): 145–148, 1983

NII-Electronic Library Service

The Lepidopterological Society of Japan

I wish to express my hearty thanks to Dr. B. GUSTAFSSON and Dr. H.-E. BACK for their kindness. I am also indebted to Dr. H. INOUE, Otsuma Woman's University, for his invaluable advice.

Calicha nooraria (BREMER, 1864)

Boarmia nooraria BREMER, 1864: 75, pl. 6: 20.
Boarmia ornataria yangeina WEHRLI, 1943: 523, **syn. nov.**
Calicha ornataria yangtseina: SATO, 1981: 106.

Material examined. Holotype of *yangtseina*, ♂, "Li-kiang (China)/Provinz Nord-Yuennan/9.7 1935 HÖNE." in coll. Museum Alexander Koenig.

In my previous paper (SATO, l.c.), I treated *yangtseina* as a subspecies of *Calicha ornataria* (LEECH), though I could examine no specimens of *yangtseina*. Examination of the type-specimen of *yangtseina* has shown it to be conspecific with *Calicha nooraria* (BREMER) and not *C. ornataria* (LEECH). I have not been able to find any subspecific differences between *yangtseina* and the nominate race of *nooraria*.

Deileptenia ribeata (CLERCK, 1759)

Phalaena ribeata CLERCK, 1759: pl. 6: 5.
Boarmia subdisplicens BRYK, 1949: 206, pl. 7: 11, **syn. nov.**

Material examined. Holotype of *subdisplicens*, ♂, "KOREA, Shuotsu 1935 Sten Bergman/Typus." Paratypes of *subdisplicens*, 1 ♀, "KOREA, Shuotsu 1935 Sten Bergman/Allotypus"; 1 ♂, "KOREA, Shuotsu 1935 Sten Bergman/Paratypus" 1 ♂, "KOREA, Motojondo 1935 Sten Bergman/Paratypus." All in coll. Naturhistoriska Riksmusseet.

Examination of the genitalia has shown the type-series of *Boarmia subdisplicens* BRYK to be identical with the Japanese specimens determined as *Deileptenia ribeata* (CLERCK). *Subdisplicens* thus falls as a junior synonym of *ribeata*.

Microcalicha seitzi (PROUT, 1915), **comb. nov.**

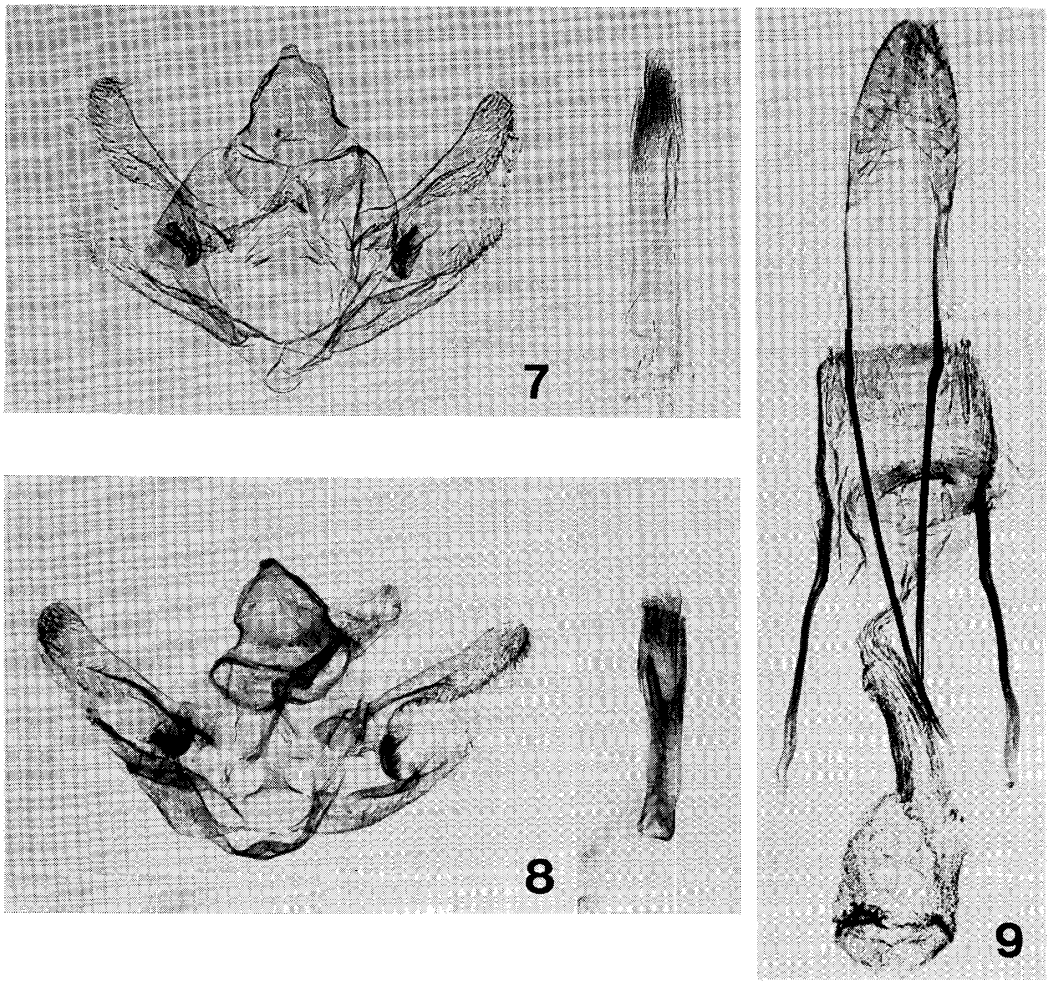
Boarmia seitzi PROUT, 1915: 375, pl. 24: b.
Boarmia (*Boarmia*) *monochroma* BRYK, 1949: 207, pl. 7: 10, **syn. nov.**
Boarmia (*Boarmia*) *seitzi chosenibia* BRYK, 1949: 207, pl. 7: 7, **syn. nov.**

Material examined. Holotype of *monochroma*, ♂, "KOREA, Shuotsu 1935 Sten Bergman/Typus." Paratype of *monochroma*, 1 ♀, "KOREA, Shuotsu 1935 Sten Bergman/Allotypus." Holotype of *chosenibia*, ♂, "KOREA, Myokosan 1935 Sten Bergman/Typus." All in coll. Naturhistoriska Riksmusseet.

A careful examination of the genitalia and external characters has revealed that *seitzi* is a typical member of *Microcalicha* SATO, 1981, closely related to *M. sordida* (BUTLER, 1878). Comparison of the holotype of *monochroma* with that of *chosenibia* shows the two to be identical. *Monochroma* is nothing more than a smaller and paler, immaculate form of *seitzi*. Disregarding its variability in size and intensity of markings BRYK (1949) named the Korean race of *seitzi* as *chosenibia*. I do not think it is possible to segregate this species into geographic races relying on unstable size and markings.

NII-Electronic Library Service

The Lepidopterological Society of Japan



Figs. 7–9. *Microcalicha seitzi* (PROUT), genitalia. 7: Male holotype of *chosenibia*. 8: Male holotype of *monochroma*. 9: Female paratype of *monochroma*.

References

BREMER, O., 1864. Lepidopteren Ost-Sibirien. *Mém. Acad. imp. Sci. St. Pétersb.*, (7), **8**(1): 1–103.

BRYK, F., 1949. Zur Kenntnis der Grosschmetterlinge von Korea, Pars II. *Ark. Zool.*, **41**A(1): 153–225.

BUTLER, A. G., 1878. Descriptions of new species of Heterocera from Japan—Part 3. Geometrites. *Ann. Mag. nat. Hist.*, (5), **1**: 392–419.

CLERCK, C. A., 1759. *Icones Insectorum rariorum*, 1.

LEECH, J. H., 1891. Descriptions of new species of Geometrae from China, Japan and Corea. *Entomologist*, **24**, Suppl.: 42–56.

PROUT, J. B., 1915. *In* SEITZ, *Gross-Schmetterlinge der Erde*, **4**.

SATO, R., 1981. Taxonomic notes on the genus *Calicha* MOORE and its allied new genus from Japan and adjacent countries (Lepidoptera: Geometridae). *Tyô to Ga*, **31**: 103–120.

WEHRLI, E., 1943. *In* SEITZ, *Gross-Schmetterlinge der Erde*, Suppl. **4**.

NII-Electronic Library Service

The Lepidopterological Society of Japan

摘　　要

シャクガ科3種のシノニミックノート（佐藤力夫）

中国・朝鮮から記載されたシャクガについて，タイプ標本を検討することによって，シノニム関係を明らかにした．

Boarmia ornataria yangtseina WEHRLI, 1943 (中国) は，*Calicha nooraria* (BREMER, 1864) の劣級同物異名である．

Boarmia subdisplicens BRYK, 1949 (朝鮮) は，*Deileptenia ribeata* CLERCK, 1759 の劣級同物異名である．

Boarmia (*B.*) *monochroma* BRYK, 1949 (朝鮮) は，*Microcalicha seitzi* (PROUT, 1915) の劣級同物異名である．また *seitzi* の朝鮮亜種 *chosenibia* BRYK, 1949 が記載されているが，大きさや斑紋に大きな変異の見られる種であり，亜種を区別することは妥当ではない．

NII-Electronic Library Service